

INCH-POUND

MS27511K
12 July 2002
SUPERSEDING
MS27511J
31 March 1988

DETAIL SPECIFICATION SHEET

COVERS, PROTECTIVE, ELECTRICAL, CONNECTOR RECEPTACLE, BAYONET COUPLING, SERIES II

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein
shall consist of this specification and MIL-DTL-38999.

Inactive for new design

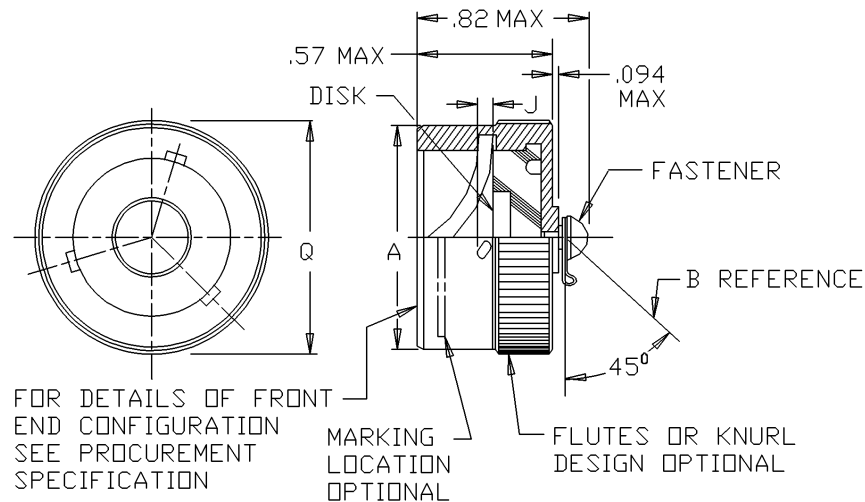
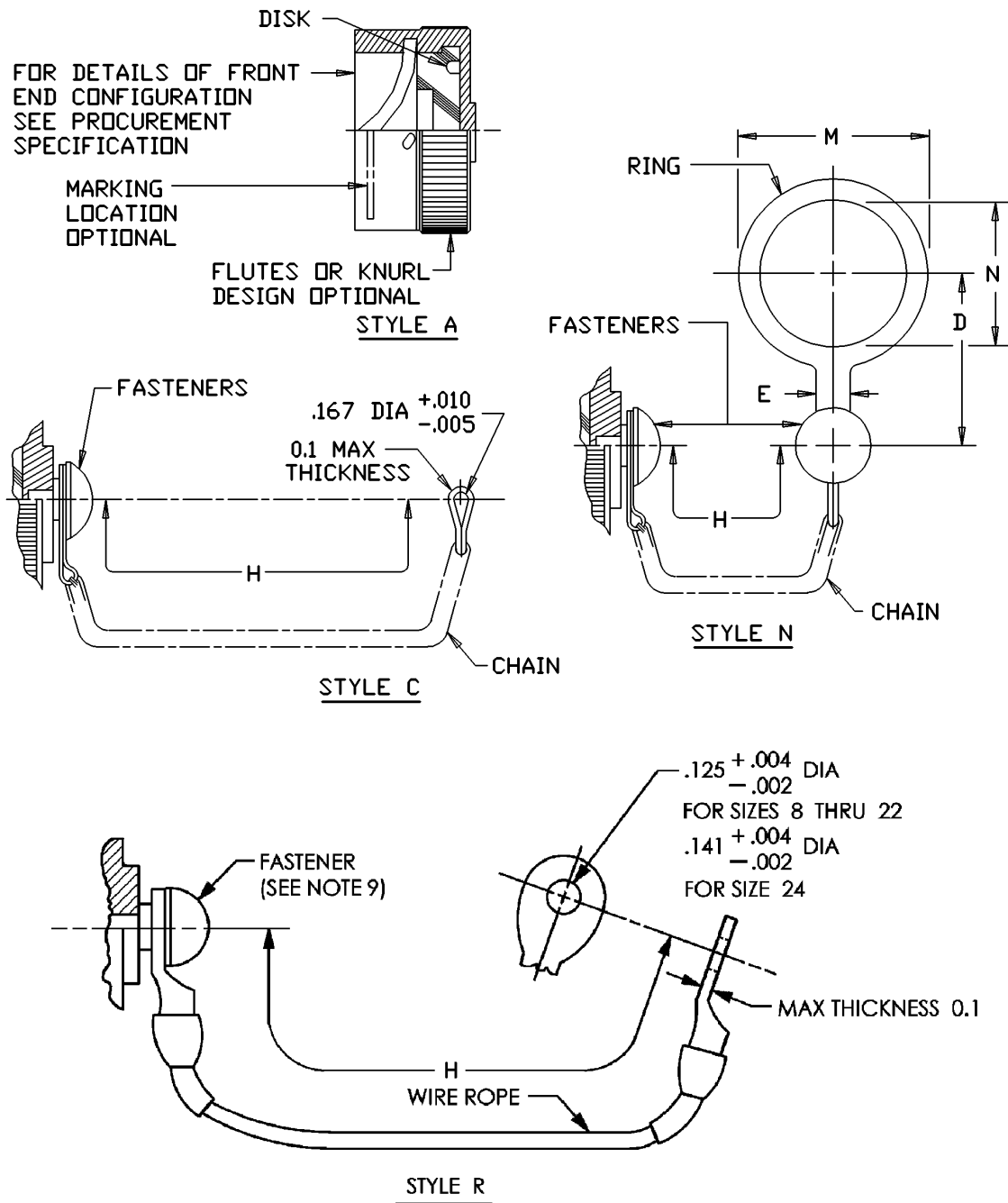


FIGURE 1. Cover.

FIGURE 1. Cover – Continued.

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Shell size	A dia max	D		E min ring throat	H +.500 -.250 standard chain or rope length	J ±.015	M max dia	N min dia	Q max dia
		max	min						
8	.630	1.13	.80	.23	3.0	.082	1.22	.89	.750
10	.761	1.23	.93				1.42	1.01	.859
12	.936	1.29	.99				1.55	1.14	1.031
14	1.074	1.35	1.05		3.50		1.68	1.26	1.156
16	1.172	1.41	1.11				1.80	1.39	1.281
18	1.304	1.47	1.18				1.92	1.51	1.406
20	1.435	1.54	1.24		4.0	.107	2.05	1.64	1.531
22	1.560	1.60	1.30				2.18	1.76	1.641
24	1.688	1.66	1.36				2.30	1.89	1.766

Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.002	.05	.57	14.5	1.11	28.2	1.36	34.5	1.66	42.2
.004	.10	.630	16.00	1.13	28.7	1.39	35.3	1.68	42.7
.005	.13	.750	19.05	1.14	29.0	1.406	35.71	1.688	42.87
.010	.25	.761	19.33	1.156	29.36	1.41	35.8	1.76	44.7
.015	.38	.80	20.3	1.172	29.77	1.42	36.1	1.766	44.86
.030	.76	.82	20.8	1.18	30.0	1.435	36.45	1.80	45.7
.094	2.39	.859	21.82	1.22	31.0	1.47	37.3	1.89	48.0
.107	2.72	.89	22.6	1.23	31.2	1.51	38.4	1.92	48.8
.1	3.0	.93	23.6	1.24	31.5	1.531	38.90	2.05	52.1
.125	3.18	.936	23.77	1.26	32.0	1.54	39.1	2.18	55.4
.141	3.58	.99	25.1	1.281	32.54	1.55	39.4	2.30	58.4
.167	4.24	1.01	25.7	1.29	32.8	1.560	39.62	3.00	76.2
.23	5.8	1.031	26.19	1.30	33.0	1.60	40.6	3.50	88.9
.25	6.4	1.05	26.7	1.304	33.12	1.64	41.65	4.00	101.6
.50	12.7	1.074	27.28	1.35	34.3	1.641	41.68		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Finish: See MIL-DTL-38999.
4. Not for space born applications.

FIGURE 1. Cover – Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Interface dimensions shall conform to MIL-DTL-38999.

Material:

Ring - Passivated stainless steel, .030 maximum thickness.

Cover - Impact extruded or machined aluminum alloy.

Disk - Silicone or fluorosilicone elastomer.

Chain - Passivated stainless steel, conforming to RR-C-271, type II, class 3.

Wire rope - Insulated, braided steel wire.

Fastener - Passivated stainless steel.

Eyelets shall be so crimped over wire rope as to ensure a breaking strength equal to or greater than that of the wire rope.

Mating connectors: MIL-DTL-38999 Series II receptacles and MIL-C-27599 Series II receptacles.

Disk shall be bonded to cover, or mechanically retained.

The chain or rope assembly shall rotate freely on the cover fastener.

The protective cover and rope assembly shall withstand a static tensile load of 35 pounds applied along the B reference line for 5 minutes.

Fastener tensile strength: Both axial and longitudinal directions shall be 25 pounds. The load shall be applied to the end of the chain or wire rope.

Qualification:

Examination of product.

Mating and unmating forces.

Humidity.

Salt spray (corrosion).

Fastener tensile strength (see requirement).

Altitude immersion.

Group A sampling inspection. 100% inspection is not applicable. Sampling inspection shall be in accordance with table I:

TABLE I. Group A sampling plan.

Lot size	Sample size
1 to 13	100 percent
14 to 150	13 units
151 to 280	20 units
281 to 500	29 units
501 to 1,200	34 units
1,201 to 3,200	42 units

Part or Identifying Number (PIN) example:

	MS27511	E	12	C	L
MS number					
Finish					
Shell Size					
Style					
Length					

C - Chain

N - With chain and ring

R - Rope

A - Without chain or rope

L - 5-inch chain in lieu of standard length.

Leave blank for standard length.

Applicable to chain only. Not applicable to style R.

CONCLUDING MATERIAL

Custodians:

Army – CR

Navy – AS

Air Force – 11

DLA – CC

Preparing activity:

DLA – CC

(Project 5935–4383)

Review activities:

Army – AR, MI

Navy – EC, MC, OS

Air Force – 19, 99